IN THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended): A hot-gas blowing fan, comprising:
- a heat resisting impeller cantilevered by a rotating shaft[[,]];
- a bearing attached to the rotating shaft[[,]];
- a heat insulating layer disposed between the impeller and the bearing; [[and]]
- a cooling portion disposed between the heat insulating layer and the bearing, and the cooling portion includes a cooling fluid to remove heat from the bearing and the rotating shaft without contacting the bearing or the rotating shaft;

wherein a first magnetic coupling to be mated with another magnetic coupling is disposed on [[the]] a shaft end of the rotating shaft at [[the]] a side opposite to the impeller;

a second magnetic coupling configured to be mated with the first magnetic coupling and disposed on a shaft end of a driving shaft of a motor; and

a non-magnetic partition wall [[is]] disposed between the first <u>magnetic</u> coupling and [[a]] <u>the</u> second <u>magnetic</u> coupling to be mated with the first magnetic coupling is disposed on the shaft end of the driving shaft of a motor,

whereby wherein a space surrounding the rotating shaft is hermetically sealed from an outer-field exterior of the hot-gas blowing fan by the non-magnetic partition wall and a casing.

- 2. (Currently Amended): The hot-gas blowing fan according to Claim 1, wherein an inert gas is filled in the hermetically sealed space is filled with an inert gas.
 - 3. (Currently Amended): A hot-gas blowing fan, comprising:
 - a heat resisting impeller cantilevered by a rotating shaft[[,]];

a bearing attached to the rotating shaft[[,]];

a heat insulating layer disposed between the impeller and the bearing, which further comprises;

an air cooling means comprising a heat receiving portion disposed between the heat insulating layer and the bearing, and the heat receiving portion includes a cooling fluid to remove heat from the bearing and the rotating shaft without contacting the bearing or the rotating shaft;

an air cooling/radiating portion provided at an outer side of a casing; and a heat transporting portion connecting the heat receiving portion to the air cooling/radiating portion.

- 4. (Original): The hot-gas blowing fan according to Claim 3, wherein the heat receiving portion and the heat transporting portion are unified to form a thermo-siphon heat pipe.
- 5. (Currently Amended): The hot-gas blowing fan according to Claim 1, wherein the cooling portion is an air cooling means comprising includes a heat receiving portion disposed between the heat insulating layer and the bearing, and

the heat receiving portion is connected to an air cooling/radiating portion provided at an outer side of the casing [[and]] via a heat transporting portion connecting the heat receiving portion to the air cooling/radiating portion.

6. (Currently Amended): The hot-gas blowing fan according to any one of Claims 1 to 5, wherein further comprising:

an inertia dust collector [[is]] provided at [[the]] an inlet port of a scroll.

- 7. (Currently Amended): The hot-gas blowing fan according to any one of Claims 1 to 6 Claim1, which is used for wherein the hot-gas blowing fan is configured to be attached to a solid oxide fuel cell.
- 8. (New): The hot-gas blowing fan according to Claim 3, wherein the hot-gas blowing fan is configured to be attached to a solid oxide fuel cell.
- 9. (New): The hot-gas blowing fan according to Claim 1, further comprising:
 a heat insulating spacer disposed between the heat insulating layer and the cooling
 portion to block heat transfer between the heat insulating layer and the cooling portion.
- 10. (New): The hot-gas blowing fan according to Claim 3, further comprising: a heat insulating spacer disposed between the heat insulating layer and the heat receiving portion to block heat transfer between the heat insulating layer and the heat receiving portion.
- 11. (New): The hot-gas blowing fan according to Claim 1, wherein a temperature of the cooling fluid is higher than a temperature of a dew-point of a process gas blown by the hot-gas blowing fan.
- 12. (New): The hot-gas blowing fan according to Claim 3, wherein a pressure in the heat receiving portion is adjusted so that a boiling point of the cooling fluid is higher than a dew-point of a process gas blown by the hot-gas blowing fan.